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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,182	04/18/2001	Fumihiko Taniguchi	980931B	7961
23850	7590	12/10/2001		
ARMSTRONG, WESTERMAN, HATTORI, MCLELAND & NAUGHTON, LLP 1725 K STREET, NW, SUITE 1000 WASHINGTON, DC 20006			EXAMINER	
			MITCHELL, JAMES M	
			ART UNIT	PAPER NUMBER
			28:2	

DATE MAILED: 12/10/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/836,182 Examiner James Mitchell	TANIGUCHI ET AL. Art Unit 2822	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 April 2001.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 14 and 15 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 14 and 15 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the preliminary amendment filed April 26, 2001.

Claim Rejections - 35 USC § 102

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 14 and 15 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Aoki et. al. (5,672,912).
3. Aoki (Fig.19A) discloses a semiconductor device comprising a chip (113) with an adhesive resin (122) interposed between said chip and a resin tape (116). Given the same material, Aoki inherently possesses a high water permeability of $10 \text{ g/m}^2 *24\text{H}$ sufficient to prevent cracking and bulging since this feature is a material constant.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 14 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki in view of Suzuki et. al. (U.S 6,218,022).
6. Aoki (Fig.19A) discloses a semiconductor device comprising a chip (113) with an adhesive resin (122) interposed between said chip and a resin tape (116).

7. Aoki does not disclose the manufacturer type of said tape. However, Suzuki teaches the use of various brands of tape.

8. It would have been obvious to one of ordinary skill in the art to utilize an Espanex tape, since it is a common brand for producing heat resistant polyimide resins as shown in Suzuki (Lines 9-10 and Lines 29-30, Column 1).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Narizuka et. al. (U.S 6,124,553), Nishihara et. al. (U.S 6,013,953), Hirakawa (U.S 6,011,694), Shin et. al. (U.S 6,150,709), Aoki et. al. (U.S 5,672,912), Miles et. al. (U.S 6,242,802), Freyman et. al. (U.S 5,296,738), and Ishii et. al. (U.S 5,019,944).

The prior art discloses in Narizuka a polyimide resin having high water permeability, in Nishihara and Hirakawa the use of a polyimide resin as a mounting substrate, in Shin the use of an epoxy resin as an adhesive, in Miles and Freyman the use of holes within a substrate for moisture relief, and in Ishii the use of a polyimide resin to prevent damage from reflow.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mitchell whose telephone number is (703) 305-0244. The examiner can normally be reached on M-F 10:30-8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (703) 308-4940. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

Application/Control Number: 09/836,182
Art Unit: 2822

Page 4

305-3432 for regular communications and (703) 305-3230 for After Final
communications.

Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the receptionist whose telephone number is (703) 308-
0956.

jmm
November 16, 2001



Stephen D. Meier
Primary Examiner